Local Safety Successes Panel Discussion

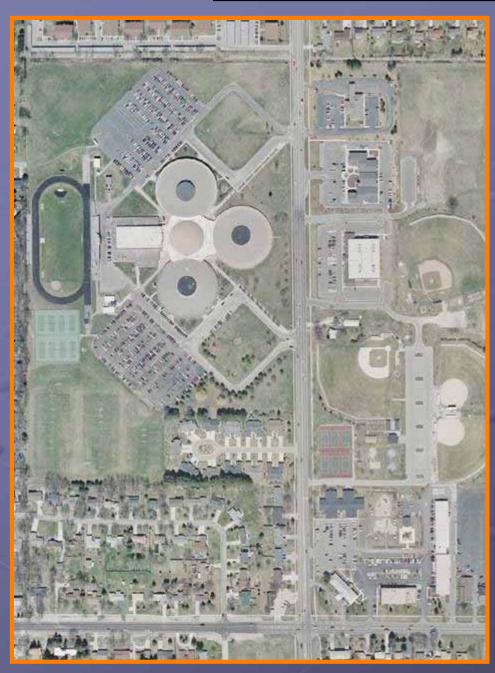
Adam Ball – Saginaw CRC
Larry Hummel – Van Buren CRC
Wayne Schoonover – Ionia CRC
William Meinz – Lapeer CRC

Facilitator: Dale Lighthizer – MDOT

Michigan Traffic Safety Summit March 11-13

-Engineering Workshop-Local Safety Initiative Program Success Stories

-Center Road Safety Project-Saginaw County Road Commission Adam R. Ball, P.E. - Director of Engineering



Project Overview

- Project Location
- Accident History
- Traffic Congestion
- Existing Roadway Geometry
- Proposed Roadway Geometry
- Traffic Signal Considerations
 - Construction Schedule
 - Cost / Funding
 - MDOT Coordination

Standard Crash Report - Milepoints

		UD10 City/Township	UD-10 Crash Location	UD-90 Crossroad Reference	Crash Type	Crash Seventy	Date						Environmental Conditi			
Mishort	0010#							Hour of Occurance		Occup.		Weekslay	Weather Lighting Surface	Relationship On Road		
5.702	3270926	Sopiner Trip	25'5	FRONTER	Roar End Straight	P00	442002	04FM-05FM	2	3	0	Thursday	Cloudy	Doylight	Dry	On Road
5.704	6866303	Saginary Typ	0'X	FRONTER	Side-Swipe Opposite	P00	1030005	COPM-DAPM	2	3	0	Sunday	Clear	Daylight	Skoly	On Road
5.743	4154259	Saginav Tvp	3975 N	SHATTUCK	Other Object	PDO	1/6/2004	OSPIM-OSPIM	1	1	0	Tuesday	Snow	Dark,Lighted	Ulmooded	Uncoded
5.761	6065974	Seginary Typ	307 N	FRONTER	Final End Straight	P00	9/50004	11AM NOON	3	3	0	Wednesday	Cloudy	Deylight	Dry	On Float
5.841	7605454	Saginer Tep	757.8	MCCARTY	Rear End Orive	PDO	4/15/2005	DAPM OSPM	2	2	0	Friday	Clow	Deylight	Dry	Or Road
5.545	51/55222	Saginary Typ	207 8	MCCARTY	Final End Straight	PDO	2020004	0648610488	2	3	0	Sunday	Cloudy	Doylight	Dry	On Road
1.964	5146311	Saginer Trop	10018	MCCARTY	Backing	PDO	12062003	C VAM COAM	2	1	0	Friday	Snow	Dark, Lighted	ley	On Road
1974	8237103	Saginer Trep	80°S	MCCARTY	Pow End Straight	PDO	12/14/2008	COPM DAPM	3		0	Wednesday	Cloudy	Deylight	Wet	Or Road
976	4321167	Saginew Twp	47 S	MCCARTY	Roar End Straight	PDO	9/17/2003	CTHM/OSAM	2	2	0	Wednesday	Unsaded	DeyligM	Dry	Or Road
979	6006208	Saginary Typ	20' 8	MCCARTY	Poar End Straight	PDO	7090004	C1PM-C2PM	2	2	0	Wednesday	Clear	DoyligM	Dry	Or Road
1.980	4321195	Sopinary Typ	15 SW	MC CARTY	Anglo Stroight	lejury:	9/17/2003	CTWM-05AM	2	3	1	Wednesday	Clear	Doylight	Dry	On Road
1981	5146225	Saginary Typ	10'5	MCCARTY	Foar-End Straight	PDO	11/6/2003	04FM-05FM	2	2	0	Wednesday	Cloudy	Doylight	Dry	On Road
1981	5230743	Saginary Typ	10.5	MCCARTY	Angle Streight	P00	5/30/04	SIAM NOON	2	2	0	Monday	Cloudy	Doylight	Dry	On Fload
1982	6566609	Saginary Typ	5.5	MCCARTY	Head-On Laff Turn	PDO	80203004	NOON-01PM	2	3	0	Sunday	Cloudy	Doylight	Dry	On Road
1.903	1532051	Saginer Trop	10'8	MCCARTY	Final End Straight	PDO	1/26/2001	COPM COPM	2	2	0	Friday	Snow	Dark,Lighted	ley	On Road
1.903	1220068	Saginer Trep	20'8	MCCARTY	Pow End Straight	PDO	2/11/2001	DSPM-CTPM	2	1	0	Suntay	Clear	Dark,Lighted	Dry	Or Road
1.983	2087124	Saginer Trop	0 X	MC CARTY	Angle Straight	Injury	2/90002	OSPM OSPM	2	2	1	Wearenday	Clinar	DeyligH	Dry	Or Road
1.903	4321021	Saginer Trep	18 W	MCCARTY	Angle Straight	PDO	10/9/2003	TOMENOON.	2	2	0	Wednesday	Clear	Deylight	Dry	Or Road
903	5146501	Saginav Tvp	30°E	MCCARTY	Angle Turn	P00	12040003	ONW 104M	2	2	0	Wednesday	Snow	Deylight	Snowy	Or Road
1963	6006175	Saginary Typ	10°E	MCCARTY	Angle Turn	PDO	8/9/2004	NOON-01PM	2	2	0	Eriday	Clear	Deylight	Dry	Or Road
963	8236813	Soginary Typ	10° E	MCCARTY	Angle Turn	PDO	91/2005	CTWAR-DSAME		-	-		200		-	Or Road
										-						

Total Fatal Crashes: 0 Total Injury Crashes: 24 Total PDO Crashes: 102

5 Year Accident History

> Injury - 24 PDO - 102 Fatal - 1

Rear End Collissions(58)

2010007 3:52:11 PM Roadfolf Version 5:4:3

Total crashes for PR 0478007: 126

JU4 INOO	N-O I PIVI	Z	Z	U	г паау	Clear	Daylight	טוע	On Road
05 07AI	M-08AM	2	2	0	Thursday	Clear	Daylight	Dry	On Road
2005 06AN	M-07AM	2	2	0	Monday	Cloudy	Dark,Lighted	Wet	On Road

Total Fatal Crashes: 0 Total Injury Crashes: 24 Total PDO Crashes: 102

Traffic Congestion

Center Road ADT = 17,585 Center Road AM Peak Hour = 2,874 High School Driveway AM Peak Hour = 823 LOS = F (Northbound)



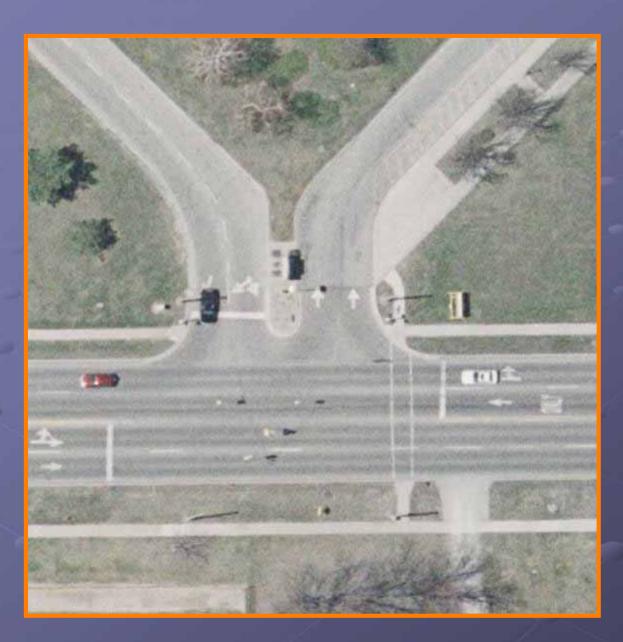


Traffic Congestion

Center Road ADT = 17,585 Center Road PM Peak Hour = 2,667 High School Driveway PM Peak Hour = 488 LOS = F (Eastbound)







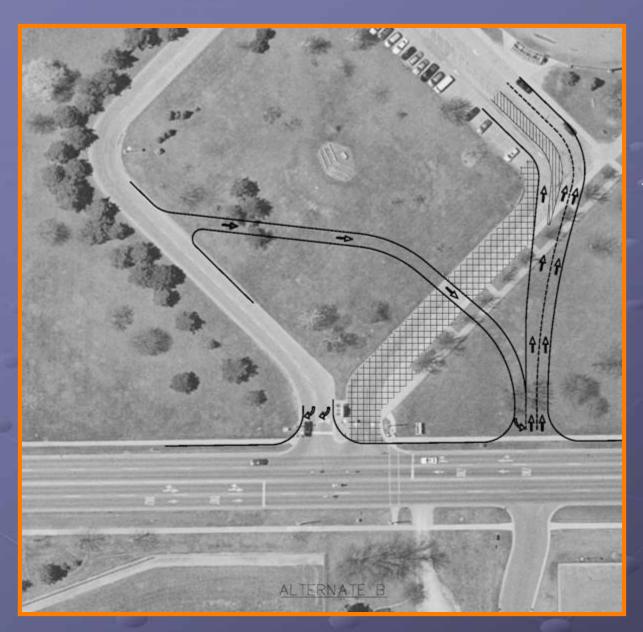
Existing Roadway Geometry

- Center Road 4 Lanes (No Turn Lane)
- School Driveway 2 Inbound and 2 Outbound
 - 3 Phase Signal
 - Pedestrian Conflicts



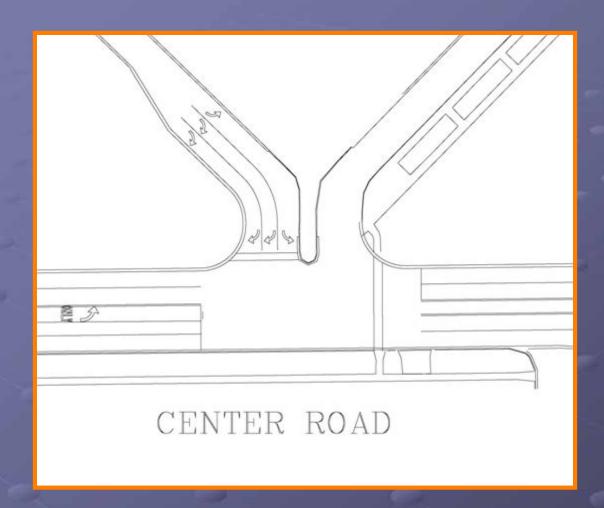
Proposed Roadway Geometry

- Traffic Study
- Funding Limits
- Budgetary Constraints
 - School Bond Issue



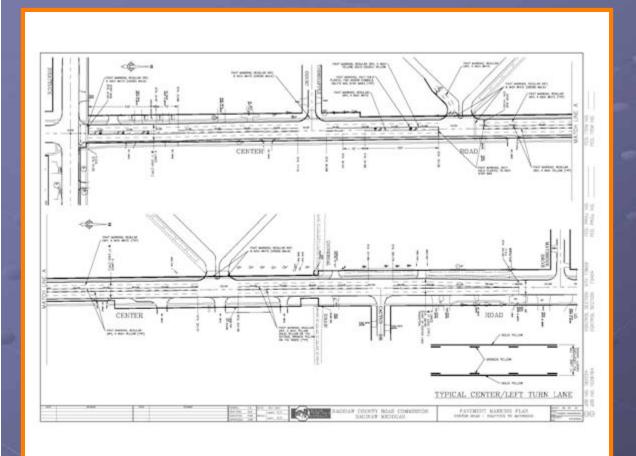
Proposed Roadway Geometry

- Traffic Study
- Funding Limits
- Budgetary Constraints
 - School Bond Issue



Proposed Roadway Geometry

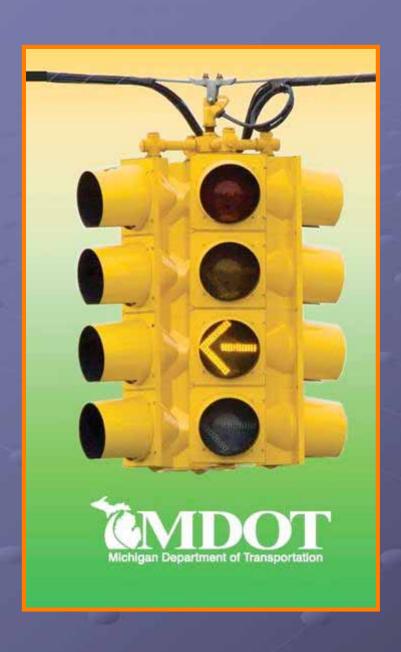
- Center Road 5 Lanes (Designated Left Turn Lane)
- School Driveway 2 Inbound and 3 Outbound
 - 4 Phase Signal
- Isolated Pedestrian Phase



Proposed Roadway Geometry

DESIGN CONSIDERATIONS

- Widening (Curb vs. Sidewalk)
- Project Limits Touch Down
 - Utility Conflict Avoidance
 - Right-of-Way

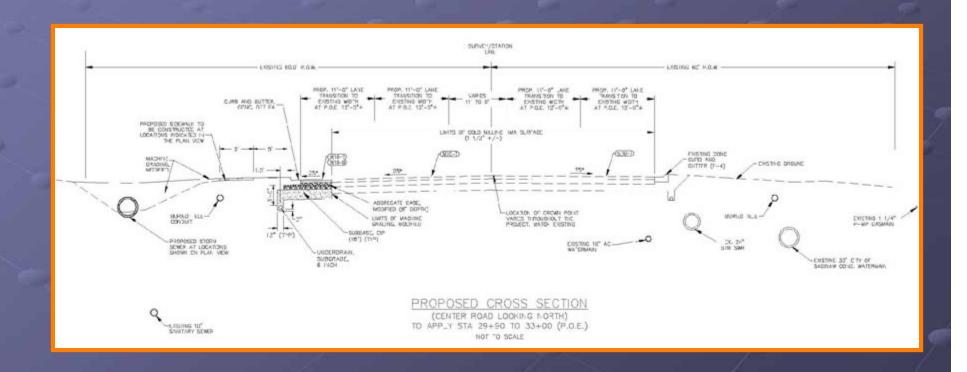


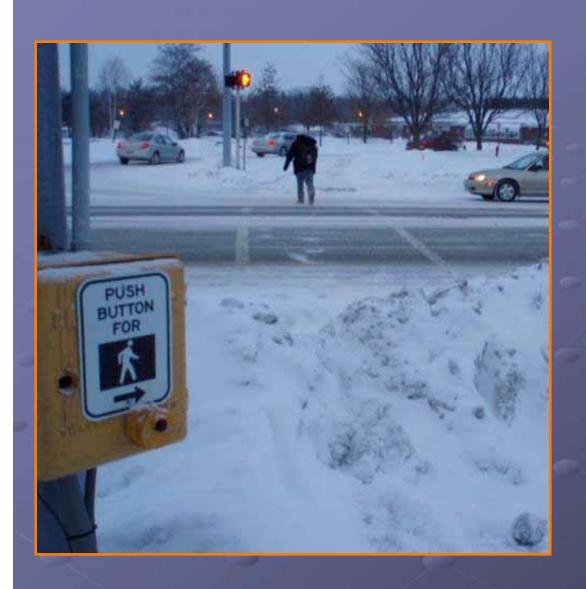
Traffic Signal Consideration

- Isolated Pedestrian Phase
- Flashing Yellow 4 Level Signal (1st in County)
 - Driver Maturity
 - Mitigation Measures

Construction Schedule

April 4th, 2008 Letting
 June 9th, 2008 Construction Start
 August 28th, 2008 Finish





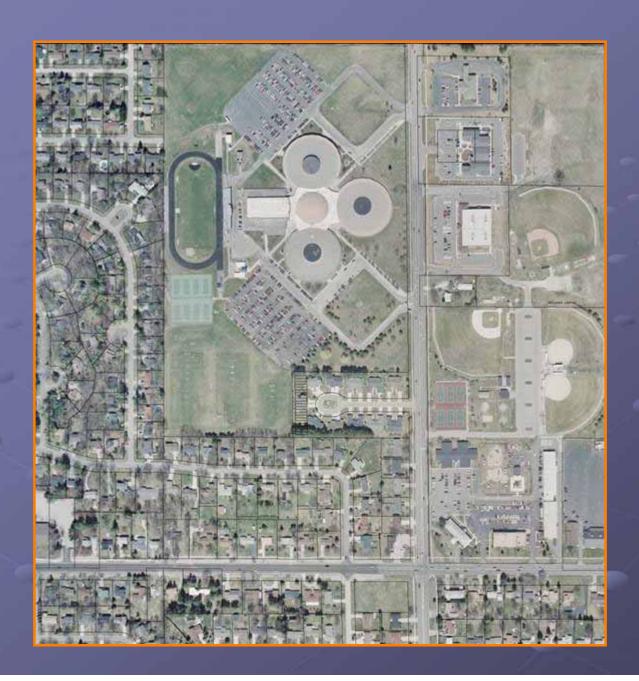
Project Cost / Funding

Safety \$400,000 STPU \$115,000 Local \$130,000

Total Cost +/- \$645,000

MDOT Help / Coordination

<u>Jim D'Lamater – MDOT Local Agency – Safety</u> <u>Ola Williams – MDOT Planning</u>



THANK YOU

Rural Safety Improvements A Local Perspective







Overview

- The availability of High Risk Rural Roads Funding (HRRR) in additional to the traditional Federal Safety Funding has provided many agencies with a much needed avenue of project funding for some of the most worthy locations across the State of Michigan as well as across the country.
- Funding allows for the targeting of the nearly 60% of fatalities across the country that occur on the road network.







Features & Benefits

- Coordination with the State of Michigan Strategic Highway Safety Plan – in particular the intersection and roadway departure segments
- Local agency coordination of safety improvements with resurfacing and restoration projects in house and with adjacent townships and/or cities and villages
- Incorporation of the Road Safety Audit model or similar review during the preliminary stages of a project
- Ability to incorporate low cost safety solutions that potentially could lead to a dramatic reduction in crashes on our rural roadways





Applications

 Rural Intersection upgrades including geometrics, signage, pavement markings and overhead beacons





Good Practices: Support attainment of pavement preservation

- Institutional Practices
 - Those practices related to the capabilities, culture and priorities of an agency. Agencies do not necessarily have the ability to adopt these practices on their own
- Technical Practices
 - Those practices that tend to be matters that are wholly or substantially within the purview of transportation agencies



Institutional Practices

- Integrate Safety into Preservation Projects
- Establish Multi-fund Project Tracking
- Provide for Flexible Project Development Cycles
- Strengthen State-Local Relationships
- Develop an Expedient Procedure for Minor Right-of-Way Acquisition
- Engage Safety Experts in Project Development



Technical Practices

- Identify Targeted
 Safety Improvements
- Selectively Improve Geometry
- Install Traffic Control Devices and Guidance
- Improve Roadsides
- Improve Private and Public Access Points





Resources

- Michigan Department of Transportation Local Agency Programs James D'Lamater, P.E.
- Michigan Department of Transportation Local Safety Initiative Dale Lighthizer, P.E.
- Publications:
 - -Innovative Intersection Safety Improvement Strategies and Management Practices: A Domestic Scan September 2006 - FHWA
 - -Good Practices: Incorporating Safety into Resurfacing and Restoration Projects December 2006 FHWA
 - -FHWA Road Safety Audit Guidelines FHWA-SA-06-06
 - -Low Cost Local Road Safety Solutions
 - NACE and ATSSA 2006
 - -State of Michigan Strategic Highway Safety Plan GTSAC 2006



Welcome to Ionia County





Ionia County Rural, and growing...



Charlotte Hwy Bridge - 1989



Charlotte Hwy Bridge - 2001

Ionia County Road Commission

- Federal Aid Safety Projects
 - Guardrail upgrading / bridge attachment / placement
 - Guardrail removal slope flattening
 - Intersection reconstruction Y to T, Twp jog
 - Curve superelevation corrections
 - County drain set back





Ionia County Road Commission

- Federal Aid High Risk Rural Roads
 - Tree removals
 - Sign upgrading additional signing and prismatic sheeting
 - Pavement Marking Improvements Recessed Urethane





Ionia County Road Commission

- MDOT Local Safety Initiative
 - County-wide Safety Audit
 - Coming soon slope flattening / sign upgrade / tree removal





Now for Something Completely Different...



Why?

In 2006, traffic crashes killed 42,642 people in the United States – about 117 deaths per day, and nearly 5 every hour.



How?

Communication & Building Trust

Communication

- Listen First:
 - Engage the public.
 - Listen before you speak.
 - Seek to understand.
 - Don't presume you have all the answers or all the questions.
- Communicate Early with the public and land owners.
 - Discuss specific crash patterns and types
 - Discuss proven engineering solutions.
 - Discuss the proposed solution, pro's and con's.
- Clarify Expectations:
 - Disclose and reveal expectations.
 - Don't assume that expectations are clear or shared.

Talk Straight:

- Be honest, let them know where you stand.
- Use simple language, translate engineering lingo.
- Don't distort the facts.
- Don't leave a false impression.

Create Transparency:

- Tell the truth in a way that can be verified.
- Be open and authentic.
- Don't have hidden agendas.
- Don't hide information.

- Demonstrate Respect:
 - Treat everyone with respect, especially those who can't do anything for you.
- Practice Accountability:
 - Hold yourself and others accountable.
 - Take responsibility for results.
 - Be clear on how you'll communicate how you're doing and how others are doing.
 - Don't avoid or shirk responsibility.
 - Don't blame others when things go wrong.

Keep Commitments:

- Say what you're going to do.
- Then do what you say you're going to do.
- Make commitments carefully and keep them.
- Don't attempt to "spin" your way out of a broken commitment.

Right Wrongs:

- Make things right when you're wrong.
- Apologize quickly.
- Make restitution where possible.
- Demonstrate personal humility.
- Don't let pride get in the way of doing the right thing.

- Deliver Results:
 - Get the right things done.
 - Don't over promise and under deliver.
 - Don't make excuses for not delivering.

This is a Journey ...

- Seek to learn about, understand, and exploit new funding sources.
- Approach every opportunity with "Cautious Enthusiasm".
- Seek assistance from others "It's not what you know and what you have, it's who you know and what they have."
- And remember... Complacency is a killer.

William Meinz – Lapeer CRC

Panel Questions